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catena-Poly[aquabis(μ -3-chlorobenzo-ato- κ^2 O:O')zinc]

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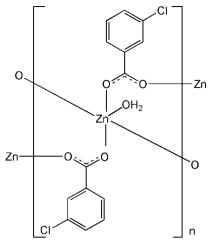
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Key indicators: single-crystal X-ray study; T = 294 K; mean $\sigma(C-C) = 0.002$ Å; R factor = 0.026; wR factor = 0.069; data-to-parameter ratio = 17.4.

In the polymeric title compound, $[Zn(C_7H_4ClO_2)_2(H_2O)]_n$, the Zn^{II} cation is located on a twofold rotation axis and is coordinated by carboxylate O atoms of four monodentate chlorobenzoate anions and by one water molecule, located on a twofold rotation axis, in a distorted square-pyramidal geometry. In the anion, the carboxylate group is twisted away from the attached benzene ring by 44.16 (11)°. The chlorobenzoate anion bridges Zn^{II} cations, forming polymeric chains running along the c-axis direction. $O-H\cdots O$ hydrogen bonds between coordinating water molecules and carboxylate groups link adjacent chains into layers parallel to the bc plane.

Related literature

For structural functions and coordination relationships of the arylcarboxylate ion in transition metal complexes of benzoic acid derivatives, see: Nadzhafov *et al.* (1981); Shnulin *et al.* (1981). For applications of transition metal complexes with biochemical molecules in biological systems, see: Antolini *et al.* (1982). Some benzoic acid derivatives, such as 4-aminobenzoic acid, have been extensively reported in coordination chemistry, as bifunctional organic ligands, due to the varieties of their coordination modes, see: Chen & Chen (2002); Amiraslanov *et al.* (1979); Hauptmann *et al.* (2000). For related structures, see: Aydın *et al.* (2012); Hökelek *et al.* (2009, 2010*a,b*, 2011); Necefoğlu *et al.* (2011); Zaman *et al.* (2012). For bond-length data, see: Allen *et al.* (1987).



Experimental

Crystal data

$[Zn(C_7H_4ClO_2)_2(H_2O)]$	$V = 1468.80 (8) \text{ Å}^3$
$M_r = 394.51$	Z = 4
Monoclinic, C2/c	Mo $K\alpha$ radiation
a = 31.8553 (8) Å	$\mu = 2.06 \text{ mm}^{-1}$
b = 6.1786 (2) Å	T = 294 K
c = 7.5117 (3) Å	$0.35 \times 0.25 \times 0.15 \text{ mm}$
$\beta = 96.554 (2)^{\circ}$	

Data collection

Bruker SMART BREEZE CCD diffractometer Absorption correction: multi-scan (SADABS; Bruker, 2012) T_{min} = 0.545, T_{max} = 0.735 13582 measured reflections 1825 independent reflections 1727 reflections with $I > 2\sigma(I)$ $R_{\rm int} = 0.036$

Refinement

 $R[F^2 > 2\sigma(F^2)] = 0.026$ $wR(F^2) = 0.069$ S = 1.121825 reflections 105 parameters H atoms treated by a mixture of independent and constrained refinement $\Delta \rho_{\rm max} = 0.43 \ {\rm e} \ {\rm \mathring{A}}^{-3}$ $\Delta \rho_{\rm min} = -0.35 \ {\rm e} \ {\rm \mathring{A}}^{-3}$

Table 1 Selected bond lengths (Å).

Zn1-O1	2.1779 (12)	Zn1-O3	1.9664 (19)
Zn1-O2	1.9493 (11)		

Table 2 Hydrogen-bond geometry (Å, °).

$D-H\cdots A$	D-H	$H \cdot \cdot \cdot A$	$D \cdot \cdot \cdot A$	$D-H\cdots A$
O3-H31···O1 ⁱ	0.77 (2)	1.89 (2)	2.6421 (17)	168 (2)
Symmetry code: (i)	$x, -y + 1, z + \frac{1}{2}$			

Data collection: *APEX2* (Bruker, 2012); cell refinement: *SAINT* (Bruker, 2012); data reduction: *SAINT*; program(s) used to solve structure: *SHELXS97* (Sheldrick, 2008); program(s) used to refine structure: *SHELXL97* (Sheldrick, 2008); molecular graphics: *ORTEP-3* for Windows (Farrugia, 2012); software used to prepare

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metal-organic compounds

material for publication: WinGX (Farrugia, 2012) and PLATON (Spek, 2009).

The authors acknowledge the Aksaray University, Science and Technology Application and Research Center, Aksaray, Turkey, for the use of the Bruker SMART BREEZE CCD diffractometer (purchased under grant No. 2010K120480 of the State of Planning Organization).

Supplementary data and figures for this paper are available from the IUCr electronic archives (Reference: XU5711).

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supplementary materials

Acta Cryst. (2013). E69, m381-m382 [doi:10.1107/S160053681301564X]

catena-Poly[aquabis(μ -3-chlorobenzoato- $\kappa^2 O:O'$)zinc]

Nihat Bozkurt, Nefise Dilek, Nagihan Caylak Delibas, Hacali Necefoğlu and Tuncer Hökelek

Comment

The structural functions and coordination relationships of the arylcarboxylate ion in transition metal complexes of benzoic acid derivatives change depending on the nature and position of the substituent groups on the benzene ring, the nature of the additional ligand molecule or solvent, and the medium of the synthesis (Nadzhafov *et al.*, 1981; Shnulin *et al.*, 1981). Transition metal complexes with biochemically active ligands frequently show interesting physical and/or chemical properties, as a result they may find applications in biological systems (Antolini *et al.*, 1982). Some benzoic acid derivatives, such as 4-aminobenzoic acid, have been extensively reported in coordination chemistry, as bifunctional organic ligands, due to the varieties of their coordination modes (Chen & Chen, 2002; Amiraslanov *et al.*, 1979; Hauptmann *et al.*, 2000). The title compound was synthesized and its crystal structure is reported herein.

The asymmetric unit of the title compound, (I), contains one-half Zn^{II} cation, one chlorobenzoate (CB) anion and one-half water molecule (Fig. 1). In the crystal, two CB anions bridge adjacent Zn^{II} cations, forming a polymeric chain running along the *c* axis, while the water molecule coordinate in a monodentate manner to the Zn^{II} cation, completing the distorted square-pyramidal geometry (Fig. 2). As a result of the CB anions bridging of the adjacent Zn^{II} cations, an eight-membered ring is formed where the distances between the symmetry related atoms, Zn1···Zn1b [4.3798 (3) Å], O1···O1b [3.020 (2) Å], O2···O2b [4.337 (2) Å] and C1···C1b [3.975 (2) Å] [symmetry code: (b) - *x*, - *y*, 1 - *z*], may reflect its size.

The crystal structures of some benzoate containing polymeric complexes of Mn^{II}, Zn^{II}, Pb^{II} and Co^{II} ions, $[Mn_2(C_8H_7O_2)_4(C_{10}H_{14}N_2O)_2(H_2O)]_n (\text{H\"o}kelek\ \textit{et\ al.},\ 2010\textit{a}), \\ [Mn(C_7H_4FO_2)_2(H_2O)_2]_n (\text{Necefo\'glu}\ \textit{et\ al.},\ 2011), \\ [Zn(C_8H_5O_3)_2(C_6H_6N_2O)]_n (\text{H\"o}kelek\ \textit{et\ al.},\ 2009), \\ [Pb(C_8H_7O_2)_2(C_6H_6N_2O)]_n (\text{H\"o}kelek\ \textit{et\ al.},\ 2010), \\ \{[Pb(C_9H_9O_2)_2(C_6H_6N_2O)].H_2O\}_n (\text{H\"o}kelek\ \textit{et\ al.},\ 2011), \\ \{[Pb(C_7H_5O_3)_2(C_6H_6N_2O)].H_2O\}_n (\text{Zaman\ \textit{et\ al.}},\ 2012) \text{ and } \\ [Co(C_7H_4IO_2)_2(H_2O)_2]_n (\text{Aydin\ \textit{et\ al.}},\ 2012) \text{ have also been\ reported.}$

In the title compound, the four O atoms (O1, O1a, O2b and O2c) [symmetry codes: (a) - x, y, 1/2 - z, (b) - x, - y, 1 - z, (c) x, - y, - 1/2 + z] in the equatorial plane around the Zn^{II} cation form a distorted square-planar arrangement, while the distorted square-pyramidal geometry is completed by the water O atom (O3) in the axial position. The near equalities of the C1—O1 [1.260 (2) Å] and C1—O2 [1.258 (2) Å] bonds in the carboxylate group indicate delocalized bonding arrangement, rather than localized single and double bonds. The average Zn—O bond length is 2.0636 (12) Å (for benzoate oxygens) and 1.9664 (19) Å (for water oxygen) (Table 1) close to standard values (Allen *et al.*, 1987). The Zn atom is displaced out of the mean-plane of the carboxylate group (O1/C1/O2) by 1.3998 (1) Å. Atoms C11, C1 and O1 are -0.0897 (7), -0.0181 (16) and -0.2341 (12) Å away from the mean-plane of the adjacent benzene ring, respectively. The dihedral angle between the planar carboxylate group (O1/C1/O2) and the adjacent benzene ring A (C2—C7) is 44.16 (11)°.

In the crystal, strong O—H···O hydrogen bonds (Table 2) link the water hydrogens to the carboxylate oxygens in the polymeric chains (Fig. 3).

Experimental

The title compound was prepared by the reaction of $ZnSO_4.H_2O$ (0.89 g, 5 mmol) in H_2O (50 ml) with sodium 3-chlorobenzoate (1.79 g, 10 mmol) in H_2O (100 ml) at room temperature. The mixture was filtered and set aside to crystallize at ambient temperature for one week, giving colorless single crystals.

Refinement

Atom H31 (for H₂O) was located in a difference Fourier map and was refined freely. The C-bound H-atoms were positioned geometrically with C—H = 0.93 Å for aromatic H-atoms, and constrained to ride on their parent atoms, with $U_{iso}(H) = 1.2 U_{eq}(C)$.

Computing details

Data collection: *APEX2* (Bruker, 2012); cell refinement: *SAINT* (Bruker, 2012); data reduction: *SAINT* (Bruker, 2012); program(s) used to solve structure: *SHELXS97* (Sheldrick, 2008); program(s) used to refine structure: *SHELXL97* (Sheldrick, 2008); molecular graphics: *ORTEP-3* for Windows (Farrugia, 2012); software used to prepare material for publication: *WinGX* (Farrugia, 2012) and *PLATON* (Spek, 2009).

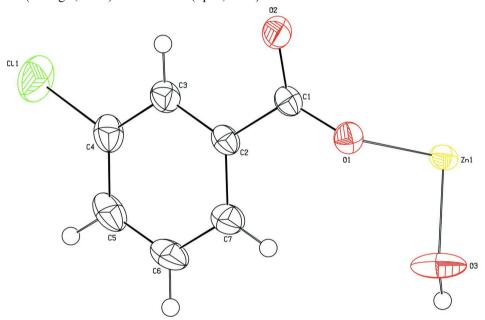


Figure 1

The asymmetric unit of the title molecule with the atom-numbering scheme. Displacement ellipsoids are drawn at the 50% probability level.

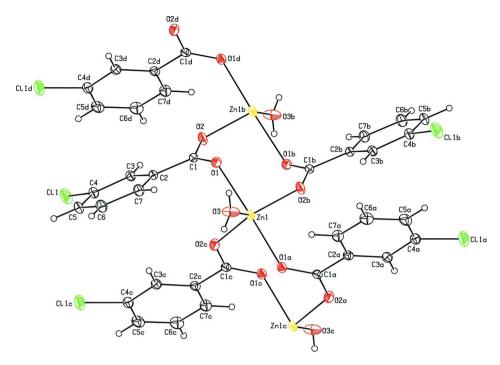


Figure 2
Part of the polymeric chain of the title compound.

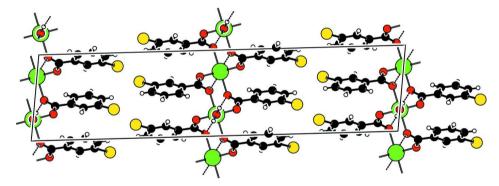


Figure 3

A view along the b axis of the packing of the title compound (a axis horizontal; c axis vertical). Hydrogen bonds are shown as dashed lines.

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Crystal data

F(000) = 792 $[Zn(C_7H_4ClO_2)_2(H_2O)]$ $M_r = 394.51$ $D_{\rm x} = 1.784 \; {\rm Mg \; m^{-3}}$ Mo $K\alpha$ radiation, $\lambda = 0.71073 \text{ Å}$ Monoclinic, C2/c Hall symbol: -C 2yc Cell parameters from 9983 reflections a = 31.8553 (8) Å $\theta = 2.6-28.3^{\circ}$ b = 6.1786 (2) Å $\mu = 2.06 \text{ mm}^{-1}$ c = 7.5117 (3) Å T = 294 K $\beta = 96.554 (2)^{\circ}$ Block, colorless $V = 1468.80 (8) \text{ Å}^3$ $0.35\times0.25\times0.15~mm$ Z = 4

Data collection

Bruker SMART BREEZE CCD diffractometer Radiation source: fine-focus sealed tube Graphite monochromator φ and ω scans Absorption correction: multi-scan (SADABS; Bruker, 2012) $T_{min} = 0.545$, $T_{max} = 0.735$

Refinement

Refinement on F^2 Least-squares matrix: full $R[F^2 > 2\sigma(F^2)] = 0.026$ $wR(F^2) = 0.069$ S = 1.121825 reflections 105 parameters 0 restraints Primary atom site location: structure-invariant direct methods 13582 measured reflections 1825 independent reflections 1727 reflections with $I > 2\sigma(I)$ $R_{\text{int}} = 0.036$ $\theta_{\text{max}} = 28.3^{\circ}, \ \theta_{\text{min}} = 1.3^{\circ}$ $h = -41 \rightarrow 42$ $k = -8 \rightarrow 8$ $l = -8 \rightarrow 10$

Secondary atom site location: difference Fourier map Hydrogen site location: inferred from neighbouring sites H atoms treated by a mixture of independent and constrained refinement $w = 1/[\sigma^2(F_o^2) + (0.0337P)^2 + 1.4314P]$ where $P = (F_o^2 + 2F_c^2)/3$ $(\Delta/\sigma)_{\text{max}} = 0.002$ $\Delta\rho_{\text{max}} = 0.43 \text{ e Å}^{-3}$ $\Delta\rho_{\text{min}} = -0.35 \text{ e Å}^{-3}$

Special details

Geometry. All esds (except the esd in the dihedral angle between two l.s. planes) are estimated using the full covariance matrix. The cell esds are taken into account individually in the estimation of esds in distances, angles and torsion angles; correlations between esds in cell parameters are only used when they are defined by crystal symmetry. An approximate (isotropic) treatment of cell esds is used for estimating esds involving l.s. planes.

Refinement. Refinement of F^2 against ALL reflections. The weighted R-factor wR and goodness of fit S are based on F^2 , conventional R-factors R are based on F, with F set to zero for negative F^2 . The threshold expression of $F^2 > 2 \operatorname{sigma}(F^2)$ is used only for calculating R-factors(gt) etc. and is not relevant to the choice of reflections for refinement. R-factors based on F^2 are statistically about twice as large as those based on F, and R- factors based on ALL data will be even larger.

Fractional atomic coordinates and isotropic or equivalent isotropic displacement parameters (\hat{A}^2)

	X	y	Z	$U_{ m iso}$ */ $U_{ m eq}$	
Zn1	1.0000	0.18233 (4)	0.2500	0.02388 (10)	
C11	0.781898 (15)	-0.05564 (11)	-0.15745 (9)	0.05827 (18)	
O1	0.97446 (4)	0.20515 (18)	-0.03094 (16)	0.0286 (3)	
O2	1.05402 (4)	0.0674(2)	0.19485 (18)	0.0368 (3)	
O3	1.0000	0.5006(3)	0.2500	0.0497 (6)	
H31	0.9935 (8)	0.573 (4)	0.325(3)	0.045 (7)*	
C1	0.94299 (5)	0.1000(3)	-0.1019 (2)	0.0250(3)	
C2	0.89932 (5)	0.1772(2)	-0.0796(2)	0.0263 (3)	
C3	0.86489 (5)	0.0444(3)	-0.1307 (2)	0.0306(3)	
Н3	0.8687	-0.0906	-0.1814	0.037*	
C4	0.82482 (5)	0.1162(3)	-0.1050(3)	0.0357 (4)	
C5	0.81842 (6)	0.3189(3)	-0.0349(3)	0.0409 (5)	
H5	0.7913	0.3660	-0.0205	0.049*	
C6	0.85288 (6)	0.4504(3)	0.0133 (3)	0.0411 (4)	
Н6	0.8489	0.5872	0.0600	0.049*	
C7	0.89340 (6)	0.3808(3)	-0.0069(3)	0.0346 (4)	

supplementary materials

H7	0.9165	5 0.4694		0.0277	0.042*		
Atomic	c displacement para	meters (Ų)					
	U^{11}	U^{22}	U^{33}	U^{12}	U^{13}	U^{23}	
Zn1	0.02038 (13)	0.01944 (13)	0.03266 (17)	0.000	0.00670 (10)	0.000	
C11	0.0262 (2)	0.0787 (4)	0.0707(4)	-0.0071(2)	0.0089(2)	-0.0203 (3)	
O1	0.0262 (5)	0.0295 (6)	0.0302 (6)	-0.0027(4)	0.0034 (5)	0.0041 (4)	
)2	0.0225 (5)	0.0460(7)	0.0416 (7)	0.0066 (5)	0.0027 (5)	-0.0187 (6)	
O3	0.0973 (18)	0.0189 (8)	0.0384 (12)	0.000	0.0312 (12)	0.000	
C1	0.0237 (7)	0.0287 (7)	0.0231 (8)	0.0039(6)	0.0049 (6)	0.0027 (6)	
22	0.0241 (7)	0.0296 (8)	0.0256 (8)	0.0060 (5)	0.0052 (6)	0.0013 (6)	
C3	0.0256 (7)	0.0356 (8)	0.0310 (9)	0.0043 (6)	0.0056 (6)	-0.0034(7)	
C4	0.0249 (8)	0.0485 (10)	0.0340 (9)	0.0030(7)	0.0046 (7)	-0.0012 (8)	
C5	0.0302 (9)	0.0523 (12)	0.0418 (11)	0.0169 (8)	0.0105 (8)	0.0013 (8)	
C6	0.0432 (10)	0.0355 (9)	0.0459 (11)	0.0151 (8)	0.0107 (8)	-0.0036 (8)	
27	0.0337 (8)	0.0311 (8)	0.0395 (10)	0.0049 (7)	0.0062 (7)	-0.0030 (7)	
Zn1—		2.1779 (1	*	2—C3		88 (2)	
Zn1—	O1 ⁱ	2.1779 (1	2) C	2—C7	1.393 (2)		
Zn1—	O2	1.9493 (1	1) C	C3—C4		1.386 (2)	
Zn1—	$O2^{i}$	1.9493 (1	1) C	3—H3	0.9300		
Zn1—	O3	1.9664 (1	9) C	C5—C4		1.383 (3)	
C11—C4 1.740 (2)		C	C5—C6 1.380 (3)		80 (3)		
01—0	C1	1.260(2)	C			300	
)2—(C1 ⁱⁱ	1.258 (2)	C	C6—H6 0.9300		300	
)3—F	H31	0.77(2)	C	C7—C6		85 (2)	
C1—C		1.258 (2)	C	7—H7	0.9	300	
C2—C	C1	1.498 (2)					
D1—Zn1—O1 ⁱ 172.58 (6)		•	3—C2—C7	120.29 (15)			
	Zn1—O1	93.38 (5)		7—C2—C1		0.01 (15)	
$O2^{i}$ — $Zn1$ — $O1$ 89.33 (5)			C2—C3—H3		120.5		
$O2$ — $Zn1$ — $O1^i$ 89.33 (5)			4—C3—C2	118.90 (16)			
	Zn1—O1 ⁱ	93.38 (5)				0.5	
	Zn1—O2	137.26 (8		C3—C4—Cl1		119.05 (16)	
	Zn1—O3	111.37 (4	<i>'</i>	5—C4—C11	119.50 (14)		
	Zn1—O3	111.37 (4	·	5—C4—C3	121.43 (18)		
	Zn1—O1	86.29 (3)		C4—C5—H5 12			
$O3$ — $Zn1$ — $O1^i$ 86.29 (3)			6—C5—C4	119.05 (16)			
C1—O1—Zn1 124.58 (10)		/	6—C5—H5	120.5			
	O2—Zn1	122.84 (1	/	5—C6—C7		0.76 (17)	
	O3—H31	125.7 (19		5—C6—H6	119		
	C1—C2	119.52 (1	<i>'</i>	7—C6—H6	119		
	C1—01	123.47 (1	*	2—C7—H7	120		
	C1—C2	117.00 (1	*	6—C7—C2		9.54 (18)	
_ 3 —C	C2—C1	119.70 (1	4) C	6—C7—H7	120	J.Z	

supplementary materials

O2—Zn1—O1—C1	116.58 (13)	C7—C2—C1—O2 ⁱⁱ	-168.37 (16)
O2 ⁱ —Zn1—O1—C1	-20.74 (13)	C1—C2—C3—C4	178.42 (16)
O3—Zn1—O1—C1	-132.21 (12)	C7—C2—C3—C4	-1.2 (3)
O1—Zn1—O2—C1 ⁱⁱ	-55.67 (14)	C1—C2—C7—C6	-179.91 (17)
$O1^{i}$ — $Zn1$ — $O2$ — $C1^{ii}$	131.24 (14)	C3—C2—C7—C6	-0.3(3)
$O2^{i}$ — $Zn1$ — $O2$ — $C1^{ii}$	36.99 (13)	C2—C3—C4—C11	-176.52 (14)
O3—Zn1—O2—C1 ⁱⁱ	-143.01 (13)	C2—C3—C4—C5	2.0(3)
Zn1—O1—C1—O2 ⁱⁱ	-100.74 (17)	C6—C5—C4—C11	177.28 (16)
Zn1—O1—C1—C2	80.48 (17)	C6—C5—C4—C3	-1.2(3)
C3—C2—C1—O1	-169.14 (15)	C4—C5—C6—C7	-0.3(3)
C3—C2—C1—O2 ⁱⁱ	12.0 (2)	C2—C7—C6—C5	1.1 (3)
C7—C2—C1—O1	10.5 (2)		

Symmetry codes: (i) -x+2, y, -z+1/2; (ii) -x+2, -y, -z.

Hydrogen-bond geometry (Å, °)

<i>D</i> —H··· <i>A</i>	<i>D</i> —H	$H\cdots A$	D··· A	<i>D</i> —H··· <i>A</i>
O3—H31···O1 ⁱⁱⁱ	0.77 (2)	1.89 (2)	2.6421 (17)	168 (2)

Symmetry code: (iii) x, -y+1, z+1/2.